



Attorney Docket No.: SP01-317

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: Qi et al.

Serial No: 10/015,128

Filing Date: 12/11/01

Title: Dispersion and Dispersion Slope
Compensating Fiber and Optical
Transmission System Utilizing Same

Group Art Unit: 2874

Examiner: Sarah Song

AFFIDAVIT

STATE OF NEW YORK:
COUNTY OF STEUBEN:

AFFIDAVIT

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I, William A. Wood, being an inventor in the above-listed case, being duly sworn, deposes and states the following:

1. I am a Senior Development Scientist employed at Corning Incorporated and have been involved in the development of dispersion compensating fibers since about 1999. I received a PhD in Mathematical Physics from Indiana University in 1991. Since about 2000, I have been extensively involved in modeling dispersion compensating and other optical fibers.

2. I have reviewed US Patent Application Publication 2003/0099450 (the '450 application). The '450 application teaches a higher order mode dispersion compensating fiber for LP₀₂ mode dispersion compensation and teaches a dispersion in the LP₀₂ mode of less than -250 ps/nm/km over an operating wavelength.

3. Further, it is my expert opinion, after modeling the profile in the '450 application, that the dispersion for the fiber described therein is positive at 1580 nm in the LP₀₁ mode.

4. Further, it is common practice to specify dispersion without any reference to the mode. Moreover, when the dispersion is so stated without any reference to the mode, the common understanding in the art is that the dispersion is that of the fundamental mode (otherwise referred to as the LP₀₁ mode).

WHEREFORE, I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under 18 U.S.C. 1001, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, and any patent to which this declaration is directed.

William A. Wood
William A. Wood

Sworn to before me this
31st day of November, 2003

Christine F. Watters
Notary Public

CHRISTINE F. WATTERS
Notary Public, State of New York
Qualified in Steuben County No. 4945322
My Commission Expires December 19, 2006